AWWA Free	Water Audit Software:		WAS v5 0
Report	ting Worksheet	Amelican Wate Copyright (> 2014)	s Works Association All Rights Reserved
Click to access definition Water Audit Report for: City of Lompoc Click to add a comment Reporting Year: 2020	Water Division - Surface Water Sys		
Please enter data in the white cells below. Where available, metered values should be used; if met input data by grading each component (n/a or 1-10) using the drop-down list to the left of the input			of the
All volumes to be	entered as: ACRE-FEET PER YEAR		
To select the correct data grading for each input, determine the high		Master Meter and Supply Error Adjus	stments
WATER SUPPLIED <	Enter grading in column 'E' and		
Volume from own sources: 5	9.544 acre-ft/yr	3 • 0	acre-ft/yr
Water imported: n/a	0.000 acre-ft/yr	• 0	acre-ft/yr
Water exported: n/a	0.000 acre-ft/yr	Enter negative % or value for under-	acre-ft/yr
WATER SUPPLIED:	9.544 acre-ft/yr	Enter positive % or value for over-reg	
AUTHORIZED CONSUMPTION			
Billed metered: 8 8	1.742 acre-ft/yr	Click here:	tion
Billed unmetered: n/a	0.000 acre-ft/yr	buttons below	
Unbilled metered: 3	2.745 acre-ft/yr	Pcnt: Value:	
Unbilled unmetered: 5	0.024 acre-ft/yr	O 🐠 0.024	acre-ft/yr
		Use buttons to se	elect
AUTHORIZED CONSUMPTION:	4.511 acre-ft/yr	percentage of wa supplied	
	THE RESERVE OF THE PARTY OF THE	OR value	Park III
WATER LOSSES (Water Supplied - Authorized Consumption)	5.033 acre-ft/yr		- 1
Apparent Losses		Pcnt: ▼ Value:	100
Unauthorized consumption:	0.024 acre-ft/yr	0.25% O	acre-ft/yr
Default option selected for unauthorized consumption - a grad	ding of 5 is applied but not displaye	d	
Customer metering inaccuracies: 5	0.023 acre-ft/yr	0.50% ● ○	acre-ft/yr
Systematic data handling errors:	0.004 acre-ft/yr	0.25% ● ○	acre-ft/yr
Default option selected for Systematic data handling errors	s - a grading of 5 is applied but not	displayed	
Apparent Losses:	0.051 acre-ft/yr		
			1
Real Losses (Current Annual Real Losses or CARL)			2 3
Real Losses = Water Losses - Apparent Losses:	4.982 acre-ft/yr		
WATER LOSSES:	5.033 acre-ft/yr		
NON-REVENUE WATER			
NON-REVENUE WATER:	7.802) acre-ft/yr		1 Car 18
= Water Losses + Unbilled Metered + Unbilled Unmetered			-E
SYSTEM DATA			
Length of mains: 10 10	3.5 miles		
Number of <u>active AND inactive</u> service connections:	16		
Service connection density:	5 conn./mile main		4 4 7 7 7
Are customer meters typically located at the curbstop or property line?	Yes (length of s	ervice line, beyond the property	
Average length of customer service line:		that is the responsibility of the utility)	1.0
Average length of customer service line has been set to zero and a	data grading score of 10 has been a	pplied	
		pplied	
Average length of customer service line has been set to zero and a	data grading score of 10 has been a	pplied	
Average length of customer service line has been set to zero and a Average operating pressure:	data grading score of 10 has been a	pplied	
Average length of customer service line has been set to zero and a Average operating pressure: 3 3 COST DATA Total annual cost of operating water system: 10 10	data grading score of 10 has been a 110.0 psi \$110,000 \$/Year		
Average length of customer service line has been set to zero and a Average operating pressure: 3 3 3 COST DATA Total annual cost of operating water system: 2 10	### style="background-color: blue;"> ### style="background-color: blue;"/> ### style:		
Average length of customer service line has been set to zero and a Average operating pressure: Average operating pressure: Total annual cost of operating water system: Customer retail unit cost (applied to Apparent Losses):	### style="background-color: blue;"> ### style="background-color: blue;"/> ### style:	poof)	
Average length of customer service line has been set to zero and a Average operating pressure: 3 3 3 COST DATA Total annual cost of operating water system: 2 10 Customer retail unit cost (applied to Apparent Losses): 3 5 5	### style="background-color: blue;"> ### style="background-color: blue;"/> ### style:	poof)	
Average length of customer service line has been set to zero and a Average operating pressure: Output Total annual cost of operating water system: Customer retail unit cost (applied to Apparent Losses): Variable production cost (applied to Real Losses): 7 5	\$110,000 \$/Year \$7.54 \$/232.02 \$/acre-ft	poof)	
Average length of customer service line has been set to zero and a Average operating pressure: Average operating pressure: Total annual cost of operating water system: Customer retail unit cost (applied to Apparent Losses): Variable production cost (applied to Real Losses): WATER AUDIT DATA VALIDITY SCORE:	\$110,000 \$/Year \$7.54 \$/100 cubic feet (\$232.02 \$/acre-ft \$: 57 out of 100 ***	oof) Use Customer Retail Unit Cost to value real losses	
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Water Audit Level 1Validation- Validator Review & Certification Statement

Water System(s) This Audit Covers:

Public Water System Identification (PWSID)1: CA 4210006B Water System Name City of Lompoc - Surface water System

List only 1 PWSID which should match the PWSID on the FWAS Instructions Tab. For Special cases where the audit covers multiple water systems connected With permanent two-way interties, list those additional PWSIDs in the **Notes** below and describe the water distribution system(s) configuration **Notes (Provided to Validator by Water System**):

Audit Period:

Validation Date: 12/16/2021

Water System Representatives: Shaun Ryan

Sufficient Supporting Documents Provided: Yes

Validation Findings & Confirmation Statement: I certify this meets the requirements of 23 CCR 638.5 (b)(4)(A-C).

Key Audit Metrics:

Data Validity Score: 57 Data Validity Band (Level): Band III (51-70)

Non-revenue water as percent of cost of operating system: 1.8

ILI N/A

Real Loss: 1,270.85 (gal/mile/day)

Apparent Loss: 2.83 (gal/conn/day)

Cerification Statement by Validator:

the California Water Code Section 10608.34 This water loss audit report has been Level 1 validated per the requirements of California Code of Regulations Title 23, Division 2, Chapter 7 and

All recommendations on volume derivation and Data Validity Grades were incorporated into the water audit. $oldsymbol{igwedge}$

If not, rejected recommendations are included here:

Validator Information:

Water Audit Validator: Larry L. & Will Jernigan Val

Validator Qualifications: Water Audit Validator Certificate issued by the CA-NV Section of the AWWA

Water Audit Level 1 Validation- Water System Certification Statement

Water System(s) This Audit Covers:

Public Water System Identification (PWSID)1: CA 4210006B Water System Name City of Lompoc - Surface water System

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Water Audit & Water Loss Improvement Steps:

loss as informed by the annual validated water audit: 1. Steps Taken: Water System to identify steps taken in the preceding 3 years to increase data validity, reduce real loss, and reduce apparent

Predictive bench testing and calibration of at least 10% of all customer meters annually. Upgrades from 60W to 100W ERT.

address these issues. If you already know what steps you plan to take, you may list them here. If not, please prepare a response within 90 days costs (issues for which your audit will not meet code requirements), you will be asked what steps you are planning in the coming year to 2. Planned Steps (OPTIONAL): If your audit reflects negative real losses or the cost of non-revenue water is greater than 100% of the operating (23 CCR Section 638.6[a]).

Certification Statement by Utility Executive

Audit and Loss Control Programs, Manual M36, Fourth Edition and in the Free Water Audit Software version 5 10608.34 and has been prepared in accordance with the method adopted by the American Water Works Association, as contained in their manual, Water This water loss audit report meets the requirements of California Code of Regulations Title 23, Division 2, Chapter 7 and the California Water Code Section

Executive Name (Print)

Shaun Ryan

Executive Position

Water Superintendent

Signature

Date

1/14/2022